

**NATURA VIVA cc**  
**Palaeontological Impact Assessments & Heritage Management,**  
**Natural History Education, Tourism, Research**

**Acwa Power**  
**Care of Lusani Madali**  
**Per email: LRathanya@acwapower.com**

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**ADDENDUM**

**Revised layout of ICE for the authorised Bokpoort Solar Power Facility (Project DAO) near Groblershoop, Northern Cape Province**

**1. Background**

This letter serves as an additional Addendum to the original Palaeontological Heritage Assessment for the Bokpoort Solar Power Facility on the Remaining Extent of Farm Bokpoort 390 near Groblershoop, Northern Cape Province (Almond 2020a) and to the subsequent Part 2 Amendment palaeontological heritage comments by the author (Almond 2020b, 2021). The solar facility comprises seven sites and is now known as Project DAO.

An earlier palaeontological heritage amendment comment by the author (Almond 2020b) covered the inclusion of 7x (9,9MW) ICE (Internal Combustion Engines) within the DAO project. The number of ICE was subsequently reduced from 7 to 3 as a consequence of combining the site into one. This entailed allowing the ICE EAs to lapse.

A proposed new layout for ICE for the DAO project, situated within the previously assessed area, is shown in Figure 1 below with the following specifications:

- Generating capacity: 9.9 MW each for five sites;
- Fuel Type: LPG/LNG and Diesel;
- Stack height: 50-70m;
- Number of engines: 1 for each plot (it is subject to the engine size, various load size available in the market);
- Fuel storage tanks: 5 for each plot (subject to the tanks sizing/designing);
- Fuel volume: 500 m<sup>3</sup> for each plot (per ICE);
- Water requirements: limited water for cooling
- Area size: 0.5 ha

**2. Conclusion and Recommendations**

In consideration of the proposed new layout of the ICE, there is no (zero) change to the significance rating compared with the original Environmental Impact Assessment (EIA) Palaeontological Heritage report, and no additional impacts on palaeontological heritage are envisaged. In addition to this, no new mitigation measures are required.

The proposed amendment is expected to have a neutral effect from a palaeontological heritage impact perspective *i.e.* no advantages or disadvantages are expected.

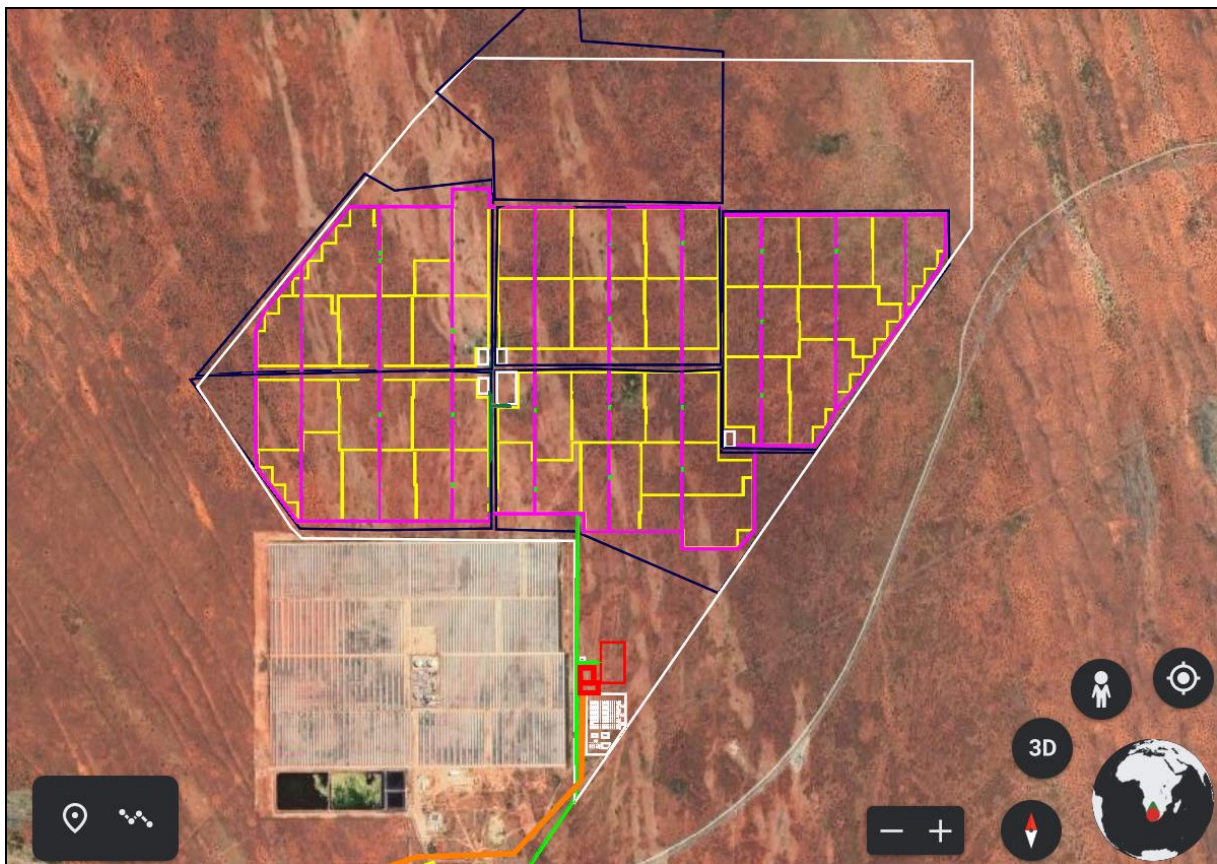
It is therefore suggested that the proposed revised layout for the ICE be supported, subject to the conditions and recommendations as stipulated in the original Environmental Authorisation, and according to the Environmental Management Programme and suggested mitigation measures, as provided in the original Palaeontological Heritage Assessment report.

Feel free to contact me at any time, should you have any queries.

Yours faithfully,



**Dr John E. Almond**  
(Palaeontologist)  
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**Figure 1: Satellite image of the authorised Project DAO near Groblershoop, Northern Cape Province, indicating proposed new layout of ICE (white rectangles).**

## REFERENCES

*NATURA VIVA cc* (Reg. No. 2000/019296/23)  
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ALMOND, J.E. 2020a. Proposed Bokpoort II Solar Power Facility on the Remaining Extent of Farm Bokpoort 390 near Groblershoop, Northern Cape Province. Palaeontological impact assessment: desktop study, 17 pp. Natura Viva cc, Cape Town.

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